Ocean Development Framework for Petrel 2012.1

Typical Plug-in Acceptance Issues

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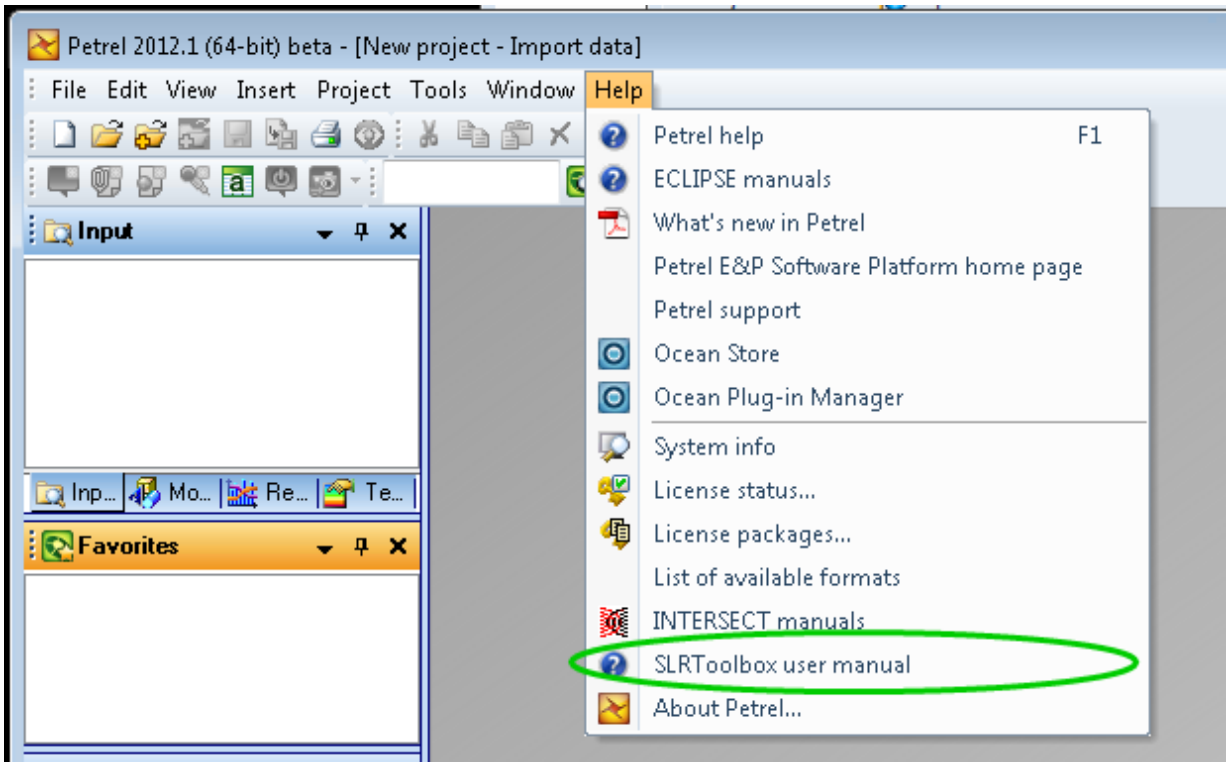
Issue 1 - Installers

Documentation to be included

Typical issues (red – wrong, green - ok)

The link to User Manual must exist under Petrel Help menu. Example is below:



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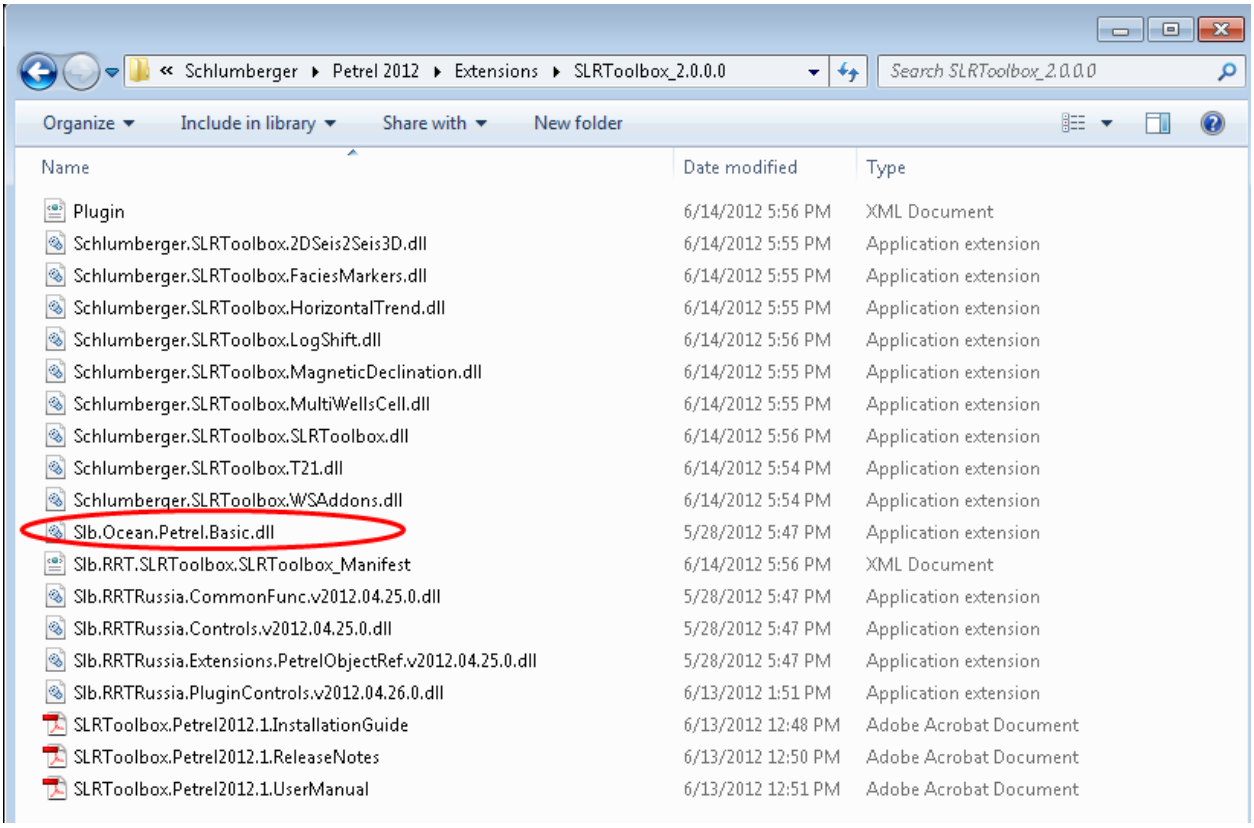
Plug-in's installation folder content

Typical issues (red – wrong, green - ok)

- The duplication of Ocean's native dll-files is not permitted in the plug-in's installation folder. The Ocean's native files are located in \Petrel\Public folders. The example of duplication is below.


« Schlumberger ▸ Petrel 2012 ▸ Extensions ▸ SLRToolbox_2.0.0.0
Search SLRToolbox_2.0.0.0
Organize
Include in library
Share with
New folder
Name
Date modified
Type
Plugin 6/14/2012 5:56 PM XML Document
Schlumberger.SLRToolbox.2DSeis2Seis3D.dll 6/14/2012 5:55 PM Application extension
Schlumberger.SLRToolbox.FaciesMarkers.dll 6/14/2012 5:55 PM Application extension
Schlumberger.SLRToolbox.HorizontalTrend.dll 6/14/2012 5:55 PM Application extension
Schlumberger.SLRToolbox.LogShift.dll 6/14/2012 5:56 PM Application extension
Schlumberger.SLRToolbox.MagneticDeclination.dll 6/14/2012 5:55 PM Application extension
Schlumberger.SLRToolbox.MultiWellsCell.dll 6/14/2012 5:55 PM Application extension
Schlumberger.SLRToolbox.SLRToolbox.dll 6/14/2012 5:56 PM Application extension
Schlumberger.SLRToolbox.T21.dll 6/14/2012 5:54 PM Application extension
Schlumberger.SLRToolbox.WSAddons.dll 6/14/2012 5:54 PM Application extension
Slb.Ocean.Petrel.Basic.dll 5/28/2012 5:47 PM Application extension
Slb.RRT.SLRToolbox.SLRToolbox_Manifest 6/14/2012 5:56 PM XML Document
Slb.RRTRussia.CommonFunc.v2012.04.25.0.dll 5/28/2012 5:47 PM Application extension
Slb.RRTRussia.Controls.v2012.04.25.0.dll 5/28/2012 5:47 PM Application extension
Slb.RRTRussia.Extensions.PetrelObjectRef.v2012.04.25.0.dll 5/28/2012 5:47 PM Application extension
Slb.RRTRussia.PluginControls.v2012.04.26.0.dll 6/13/2012 1:51 PM Application extension
SLRToolbox.Petrel2012.1.InstallationGuide 6/13/2012 12:48 PM Adobe Acrobat Document
SLRToolbox.Petrel2012.1.ReleaseNotes 6/13/2012 12:50 PM Adobe Acrobat Document
SLRToolbox.Petrel2012.1.UserManual 6/13/2012 12:51 PM Adobe Acrobat Document

- In case of using similar named dll-file in the two or more plug-ins, please use similar binary content as well. In case you have two or more plug-ins and two or more versions of similar named dll-files in the each plug-in's folder, so Petrel will use just one of them. There is potential bug when both plug-in are installed under one Petrel. For example, this is the name of our SLR common dll-file that used in many plug-ins: Slb.RRTRussia.Controls.v2010.06.22.0.dll. In case the common dll-file was updated its name is modified too: Slb.RRTRussia.Controls.v2011.04.20.0.dll.

- Plug-in's folder should be removed after uninstallation. Sometimes, there Install/Uninstall log files are located in plug-in's folder. It is wrong. Please, use **"Extensions"** or **"Petrel"** folder for saving plug-in's installation log files.

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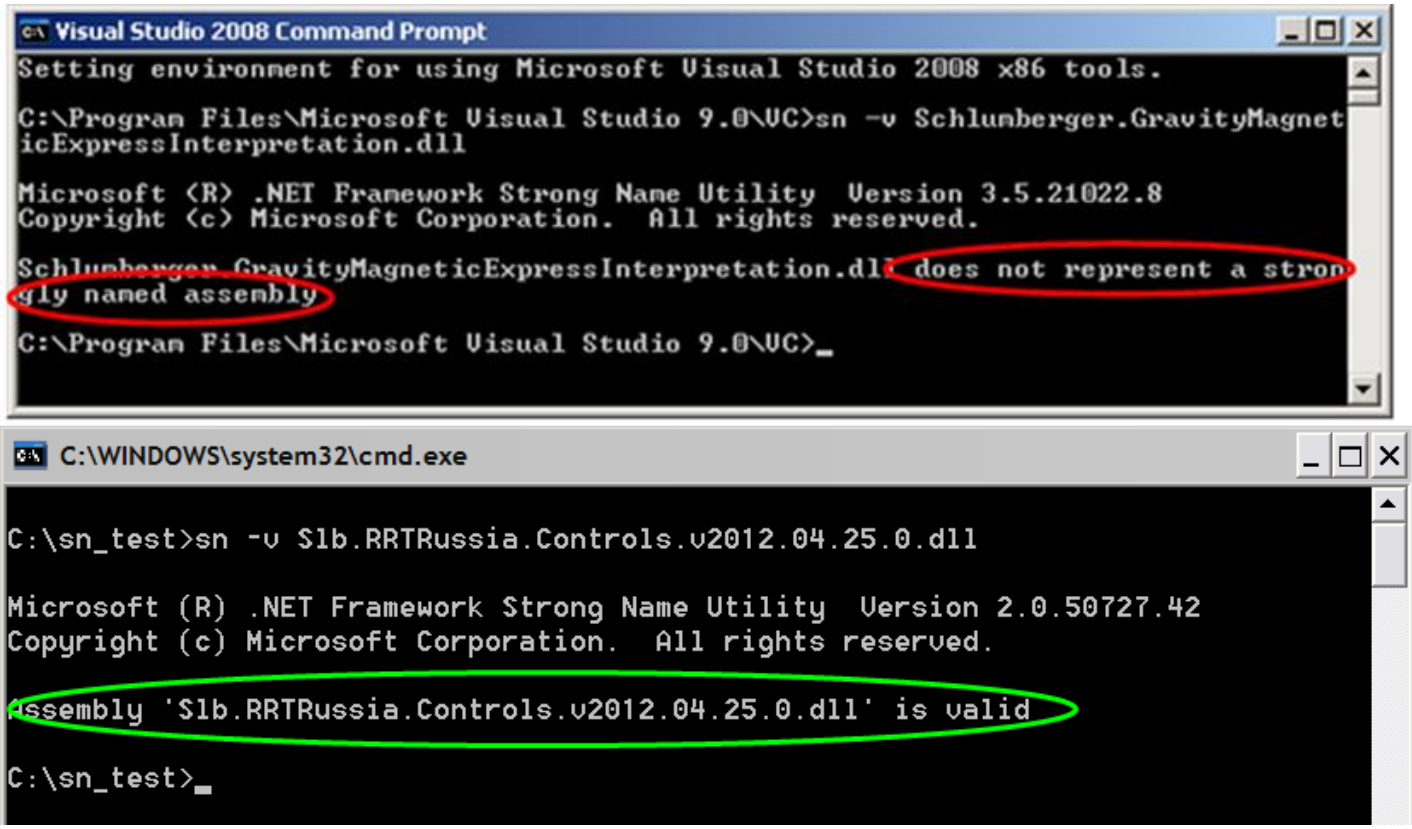
Strongly naming

Typical issues (red – wrong, green - ok)

Plug-in's dll-file does not represent a strongly named assembly.


Visual Studio 2008 Command Prompt
Setting environment for using Microsoft Visual Studio 2008 x86 tools.
C:\Program Files\Microsoft Visual Studio 9.0\VC>sn -v Schlumberger.GravityMagnet
icExpressInterpretation.dll
Microsoft (R) .NET Framework Strong Name Utility Version 3.5.21022.8
Copyright (c) Microsoft Corporation. All rights reserved.
does not represent a stron
gly named assembly
C:\Program Files\Microsoft Visual Studio 9.0\VC>
C:\WINDOWS\system32\cmd.exe
C:\sn_test>sn -v Slb.RRTRussia.Controls.v2012.04.25.0.dll
Microsoft (R) .NET Framework Strong Name Utility Version 2.0.50727.42
Copyright (c) Microsoft Corporation. All rights reserved.
Assembly 'Slb.RRTRussia.Controls.v2012.04.25.0.dll' is valid
C:\sn_test>

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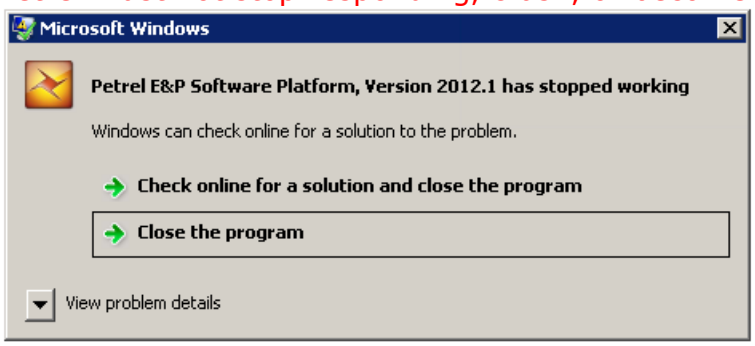
Issue 2 - Stability

Petrel crash example

Petrel must not stop responding, crash, or become unstable during the validation.


Microsoft Windows
Petrel E&P Software Platform, Version 2012.1 has stopped working
Windows can check online for a solution to the problem.
Check online for a solution and close the program
Close the program
View problem details

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Issue 3 - UI & Functionality

Petrel standard bitmap usage

Typical issues (red – wrong, green - ok)

Petrel standard bitmaps must be-reused whenever possible.

Worksteps issues

Worksteps does not work or are not documented properly. A test case in documentation for the worksteps is missing.

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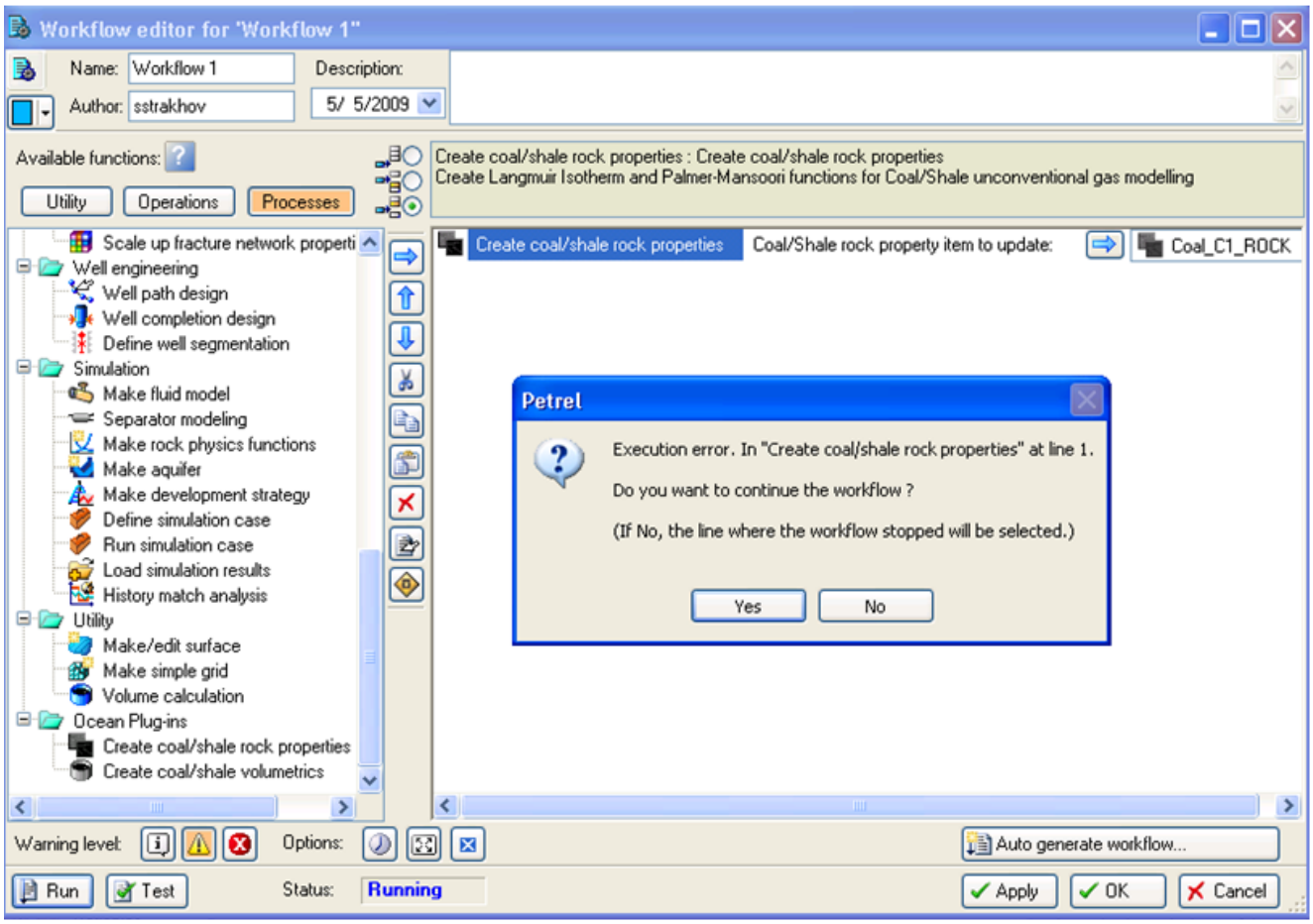

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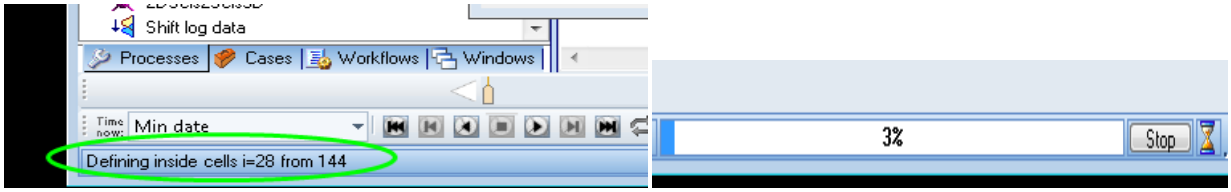
Progress bar recommendations

Typical issues (red – wrong, green - ok)

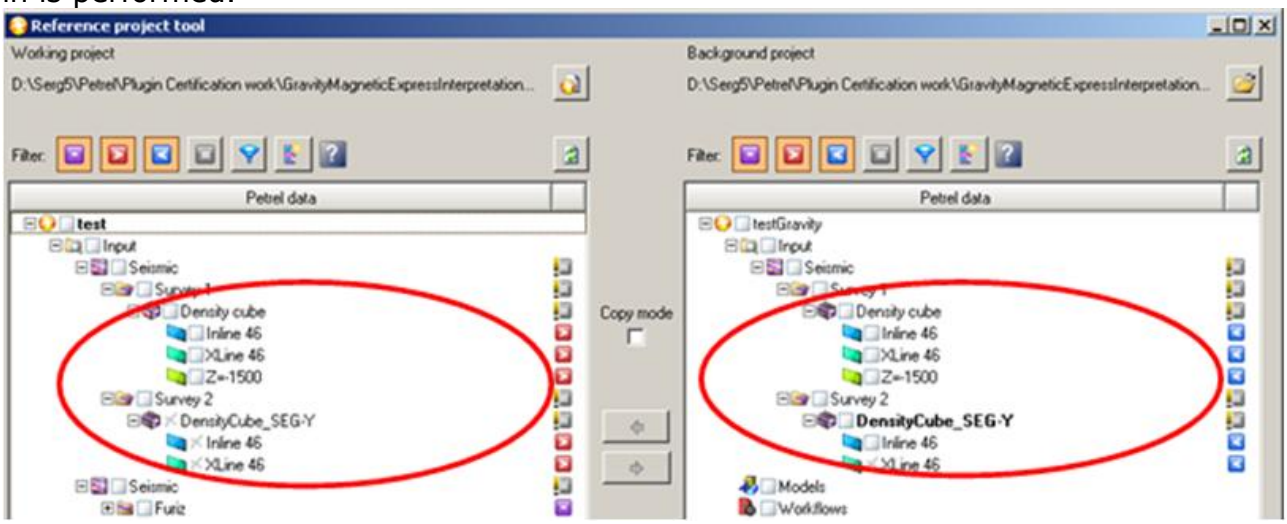
Text for the progress bar status is missing. Progress bar should contain the information what is going.



Data and objects are corrupted by plug-in

Typical issues (red – wrong, green - ok)

A difference exists between objects in project that saved before and after the plug-in is performed.



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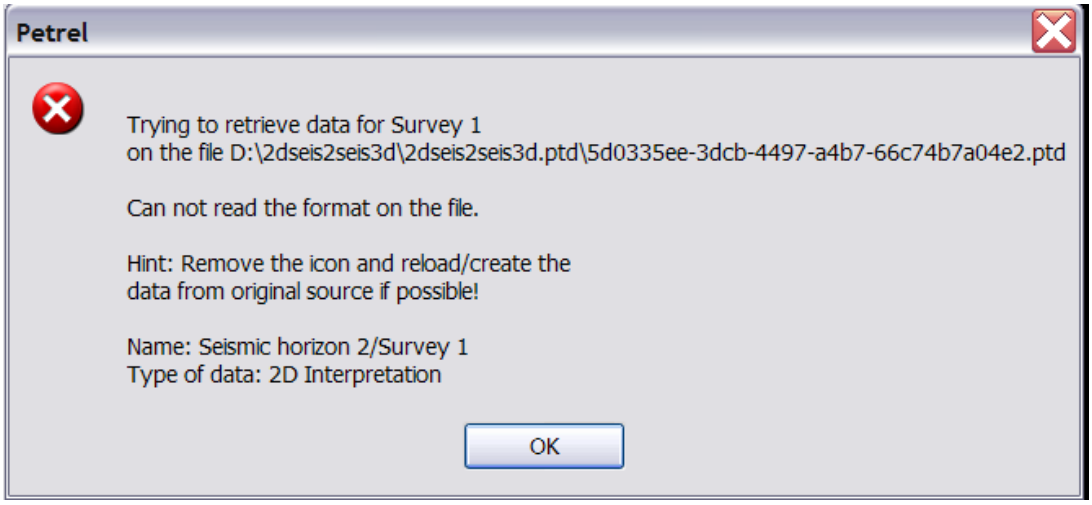
Example error when corrupted project:


Petrel
Trying to retrieve data for Survey 1
on the file D:\2dseis2seis3d\2dseis2seis3d.ptd\5d0335ee-3dcb-4497-a4b7-66c74b7a04e2.ptd
Can not read the format on the file.
Hint: Remove the icon and reload/create the
data from original source if possible!
Name: Seismic horizon 2/Survey 1
Type of data: 2D Interpretation
OK

Services are not removed

All services that are added by the plug-in have to be removed after Petrel is closed. Please, check it based on the source code.

Resizing behavior

Typical issues (red – wrong, green - ok)

Resizing behavior: Simple components (labels, buttons, etc.) must not be resized when the dialog is resized.

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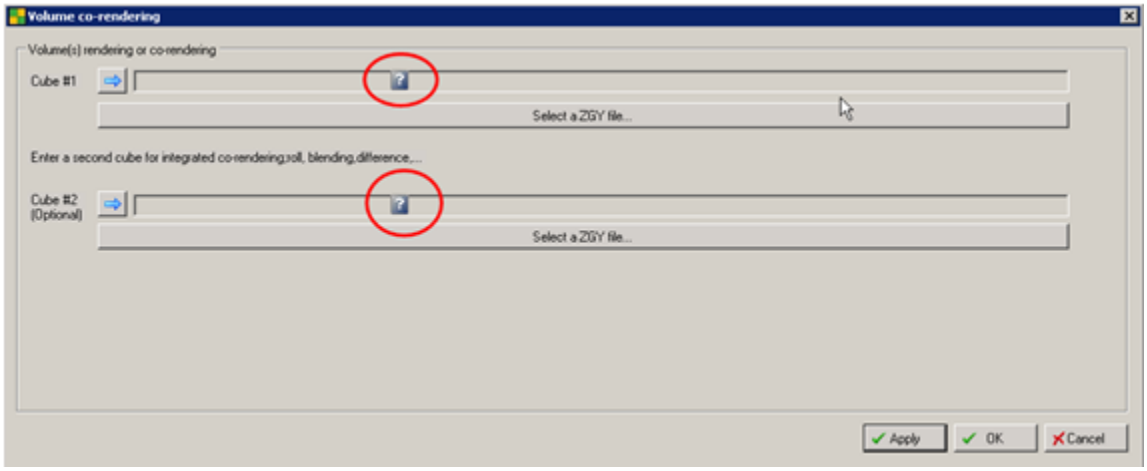
Example 1



Example 2

Open/re-open behavior

Open/re-open behavior: When dialog is opened (from a closed state), it must be updated to the settings last applied (saved) by this dialog or by any other window or dialog that can update the settings.

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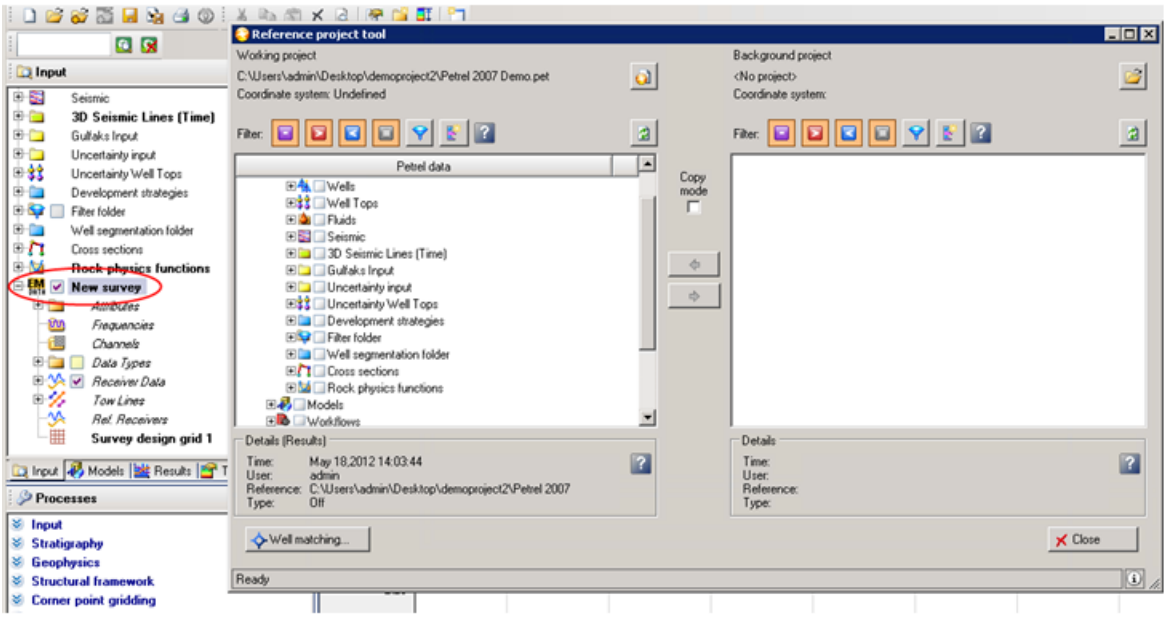
CDO supporting in RPT

Typical issues (red – wrong, green - ok)

CDO “Survey folder” is not found in RPT



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Issue 4 - Documentation

List of files installed

In the Installation Guide the list of plug-in's installed files is missing or it is not complete.
There is the correct listing of installed files on the example below.

As the result of the installation process:

1. Files were added to the folder "Petrel 2012\Extensions\Petrel 2012\ Well Pattern Design_1.3.0.3\":
    - plugin.xml
    - Schlumberger.GeometricalGraph.dll
    - Schlumberger.WellPattern.Internal.dll
    - Schlumberger.WellPatternModule.dll
    - Schlumberger.WellPatternUI.dll
    - Slb.RRT.WellPattern.WellPatternModule_Manifest.xml
    - WellPattern.Petrel2012.1.UserManual.pdf
    - WellPattern.Petrel2012.1.ReleaseNotes.pdf
    - WellPattern.Petrel2012.1.InstallationGuide.pdf
2. Files were deleted:
    - none
3. The module plug-in name used to register the module: **"Petrel 2012.1 Well pattern design Plug-in"**.

Public key

Public key token used to sign the plug-in dll files is missing in the Installation Guide. The correct public key is on the below example.

The public key token of the key used to sign the module assemblies: **74f56ef7d8625d2d.**

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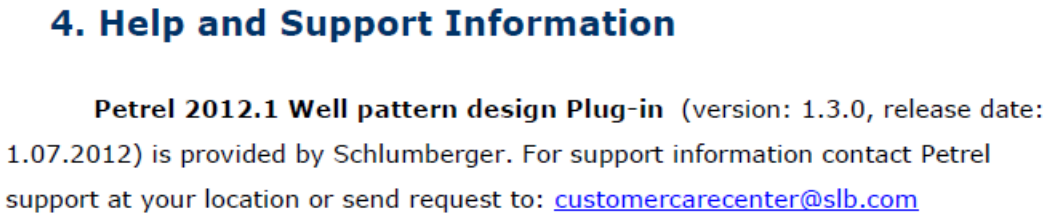
Help and support information chapter

1. Help and support information chapter is missing. There is the correct info for help and support information on the example below.



4. Help and Support Information

Petrel 2012.1 Well pattern design Plug-in (version: 1.3.0, release date: 1.07.2012) is provided by Schlumberger. For support information contact Petrel support at your location or send request to: customercarecenter@slb.com

2. Plug-in must be visible in Plug-in Manager and displays appropriate support information. 2012.1: mandatory.

   The minimum information must be found:

   - a. Name of company
   - b. Name of module
   - c. Version
   - d. Release date
   - f. Support e-mail or web-link

Known issues reference

Release notes document has to contain known issues workaround.
All known plug-in's issues should be described: how it appeared and how it can be avoided.
If it can't be avoided, it must be fixed.
Note: the information required for a client, in order to be informed about an existing issue.

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3. Knows issues (Petrel 2011.1 64 bit platform).

1. When running on windows Vista-64, Peep export feature of plug-in has one known issue related with Merak Peep login. Merak Peep authorization window appears in the background (under all windows opened: Petrel window, plug-in window, etc.). We suggest resolving this issue by using "Cascade windows" option (after right-button mouse click on the windows task bar).
2. When running on windows Vista-64, XP-64 Merak Peep export feature of plug-in you need the appropriate Merak Peep license accessible. In case of busy or missing license Petrel closing with an error.
3. The plug-in Petrel 2011.1 ReservesClassification Plug-in (x64) uses Microsoft.NET Framework version 3.5 SP1 library. Therefore Microsoft.NET Framework version 3.5 SP1 must be installed. Plug-in works incorrectly when Microsoft.NET Framework version 3.5 SP1 is not installed. Please do not uninstall Microsoft.NET Framework version 3.5 SP1 during plug-in are used it can bring unexpected behavior.
4. The plug-in Petrel 2011.1 ReservesClassification (x64) may have a problem to open project saved in previous version of plug-in. To avoid the problem please do the following in the previous version: close all windows in project and save it. Otherwise Petrel may throw an error.

License Feature name description

Required Petrel License Features list and License Feature name description is missing in the Installation Guide. The correct License Feature description are on the below example.

Licensing

The following features must be added to your Petrel license file:

- **OCEAN_SLB_IM_PROJECT_ARCHIVE**
- **OCEAN_SLB_IM_RESULTS_CAPTURE**

The following feature must be added to your ProSource server license file:

- **OCEAN_SLB_IM_PROJECT_PUBLISH**

Contact your Schlumberger SIS Customer Support representative to obtain the necessary licenses for ProSource.

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Hardware and Software/operating system requirements

Hardware and Software/operating system requirements description is missing in the Installation Guide. The correct Hardware and Software/operating system requirements description are on the below example.

1.1 Hardware recommendations

No specific hardware needed for running **Petrel 2012.1 Well pattern design Plug-in**. Minimum recommended hardware for Petrel 2012.1 is enough for working with the plug-in:

- Quad-core processor (best with a fast clock speed and high cache)
- 8.0 GB DDR3 SDRAM
- 2 GB of free disk space
- NVIDIA Quadro® 4000
- 1024x768 screen resolution with 32-bit colors

1.2 Software requirements

- Windows Vista 64-bit, Windows 7 64-bit
- Microsoft.NET Framework version 4, Microsoft.NET Framework version 3.5 SP1,
- Flexnet 11.8

Petrel 2012.1 Well pattern design Plug-in is a Petrel plug-in and requires the corresponding Petrel version (Petrel 2012.1) previously installed. To check license go to Petrel main menu → Help → License status and find "Well pattern design" in the list of Petrel Ocean Plig-ins.

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Domain Object description

Definition and a list of each Custom Domain Object (CDO) and Manipulated domain objects list is missing in the Release Notes. The correct Domain Object description are on the below example.

Example 1

Manipulated domain objects list

WaterFlood Analysis plug-in manipulates only with CustomDomain Objects

Custom domain objects

Type of custom domain objects is WaterFlood Analysis dataset

WaterFlood Analysis plug-in was build against Petrel 2012.1 version

Example 2

Domain objects

To fulfill Ocean store guidelines, it is necessary to list all custom domain objects manipulated and created by the Bridge EM plug-in.

Petrel domain objects manipulated by Bridge

- Seismic cubes and sections
- Pillar grids, properties and horizons
- Points and point sets
- Well logs
- Surfaces
- Folders

Custom domain objects created by Bridge

- Attribute folder
- Attribute node
- Channel folder
- Channel node
- Data type folder
- Data type node
- Frequency folder
- Frequency node
- Line folder
- Line node
- Receiver folder
- Receiver sub folder
- Receiver node
- Reference receiver folder
- Reference receiver node
- Survey folder
- Survey design grid
- Model folder
- 1D model node
- 2D model node
- 3D model node
- EM window node

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Example 3

Petrel Domain Objects Used

The ProSource Front Office plug-in for Petrel creates/modifies the following domain objects in Petrel:

- Well (including deviation data)
- Well Logs
- Completions
- Checkshots
- Well tops

The ProSource Front Office plug-in for Petrel does not use any custom domain objects.

Platform availability

Typical issues (red – wrong, green - ok)

Platform availability: against which the plug-in was built is missing in the Release Notes. The correct Platform availability description are on the below example.

Manipulated domain objects list

WaterFlood Analysis plug-in manipulates only with CustomDomain Objects

Custom domain objects

Type of custom domain objects is WaterFlood Analysis dataset

WaterFlood Analysis plug-in was build against Petrel 2012.1 version

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Appendix

This appendix provides some historical context. The items presented here are from the previous plug-in certification checklist. Since they applied to earlier versions of Ocean the images reflect earlier versions of Petrel and the associated features may not be present in the current Petrel. You can use this content to see how your plug-in met the earlier certification checklist criteria and make adjustments as needed for the new 2012.1 acceptance criteria.

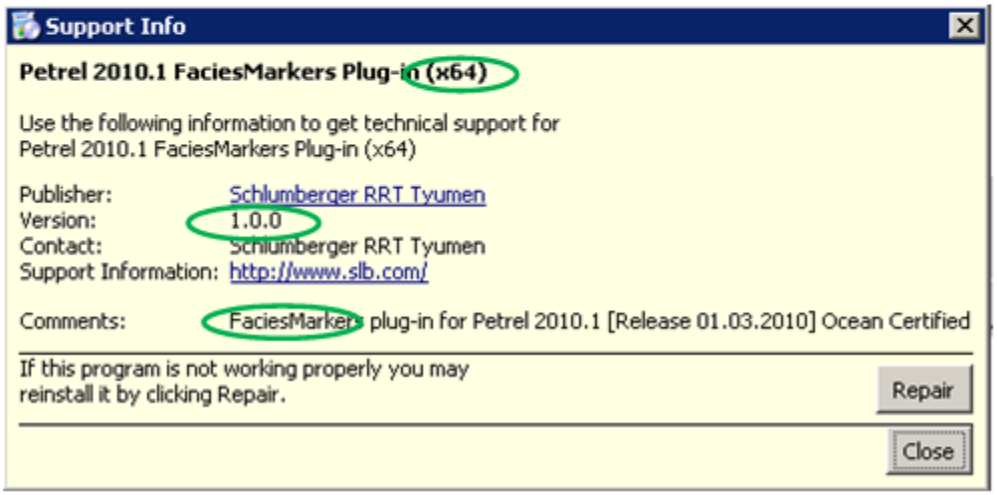
Issue 1 - Plug-in naming

Single plug-in naming requirement

Typical issues (red – wrong, green - ok)

Could you please follow a single name, platform and version of plug-in whenever it displayed. Please, don't use different naming for one plug-in. Examples of write plug-in name usage are below. Plug-in name usage in the installer's window and Add/Remove program window:

Petrel 2010.1 FaciesMarkers Plug-in (x64)
Welcome to the Petrel 2010.1 FaciesMarkers Plug-in (x64) Setup Wizard
The installer will guide you through the steps required to install Petrel 2010.1 FaciesMarkers Plug-in (x64) on your computer.


Support Info
Petrel 2010.1 FaciesMarkers Plug-in (x64)
Use the following information to get technical support for
Petrel 2010.1 FaciesMarkers Plug-in (x64)
Publisher: Schlumberger RRT Tyumen
Version: 1.0.0
Contact: Schlumberger RRT Tyumen
Support Information: http://www.slb.com/
Comments: FaciesMarkers plug-in for Petrel 2010.1 [Release 01.03.2010] Ocean Certified
If this program is not working properly you may reinstall it by clicking Repair.
Repair
Close

Plug-in name usage in Petrel's About window, in installation log file:

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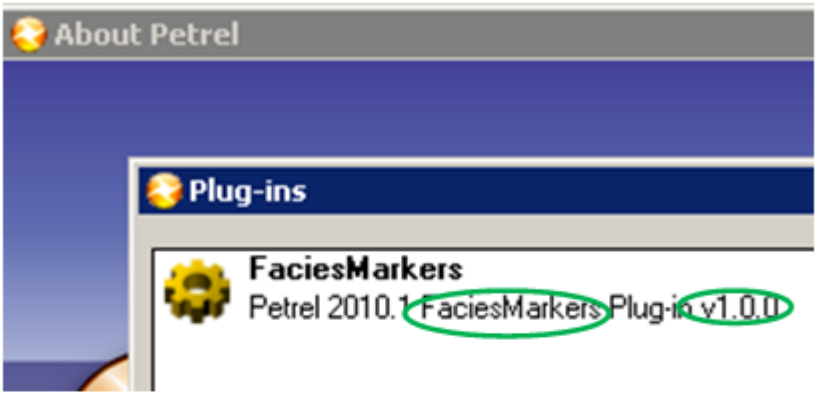
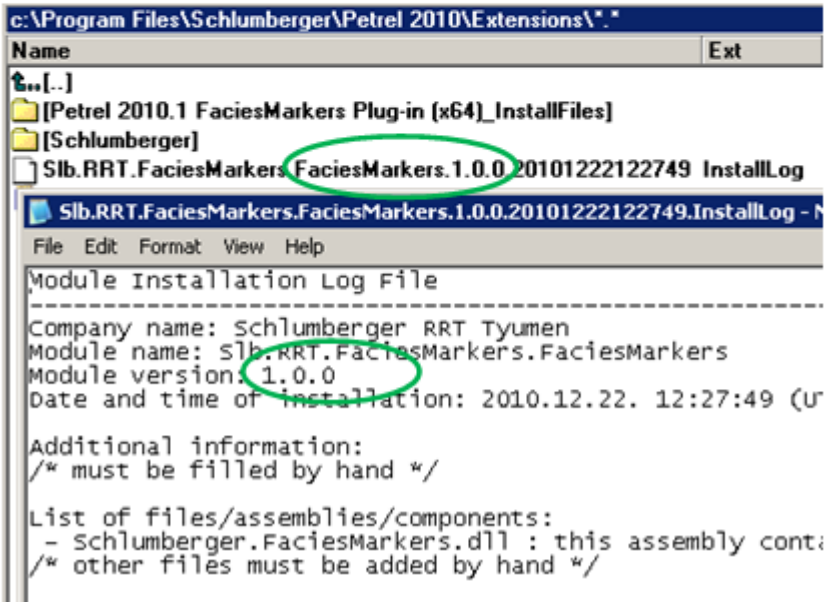
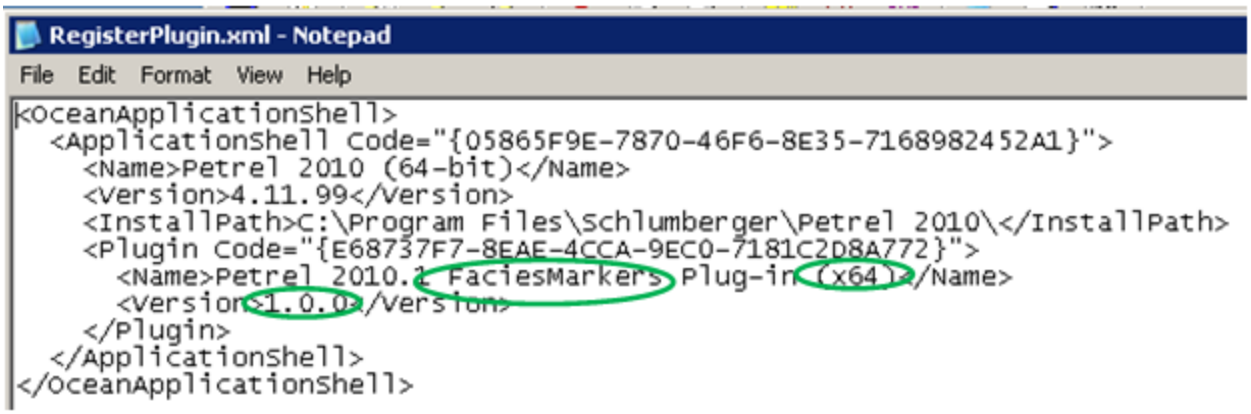




Plug-in name usage in RegisterPlugin.xml:



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Plug-in name usage in a document title:

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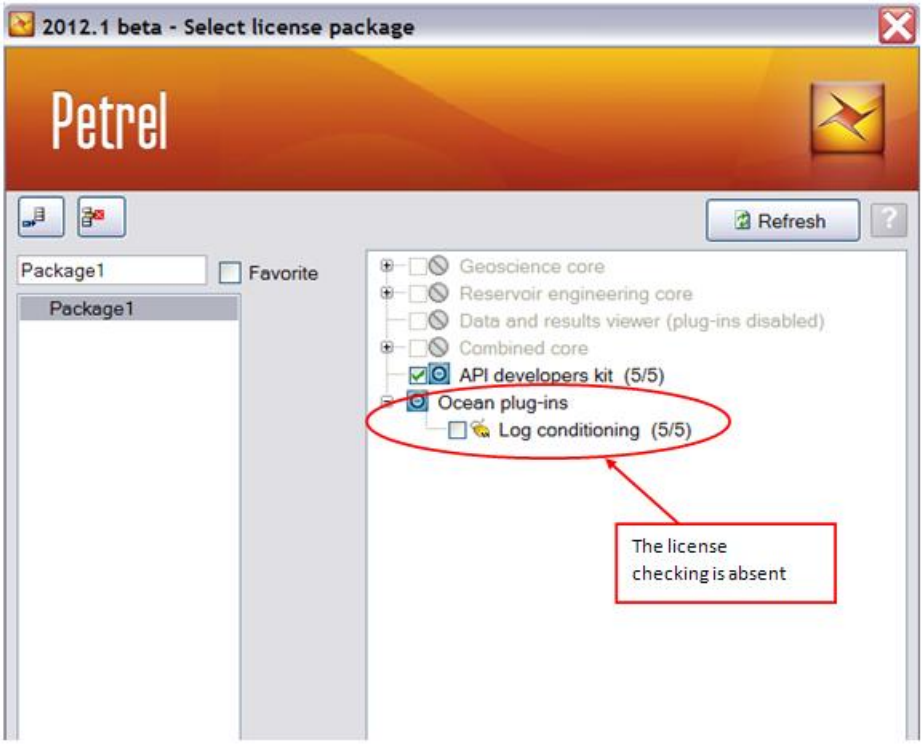
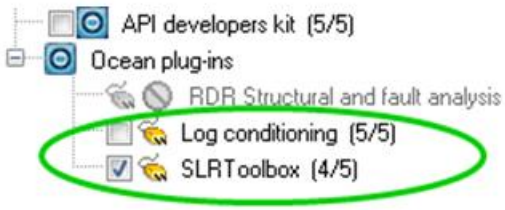
Issue 2 - Licensing

License check is not implemented

Typical issues (red – wrong, green - ok)
The license checking is missing. Example is below.



Example:



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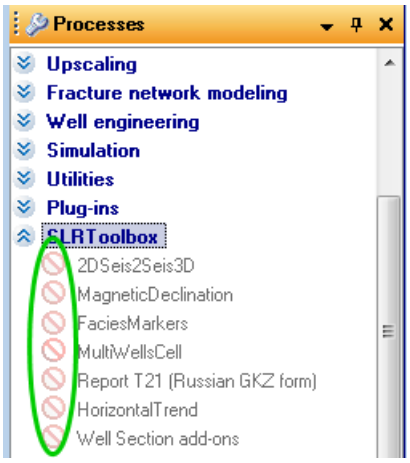
Stop sign icon is missing

Typical issues (red – wrong, green - ok)

Not licensed processes are not marked by Stop sign icon. Not licensed processes must be disabled and their icons replaced with a Stop sign icon.



More than one license lock

Plug-in is locking two or more license features from license server. Plug-in should lock not more than one license feature in one plug-in run session.

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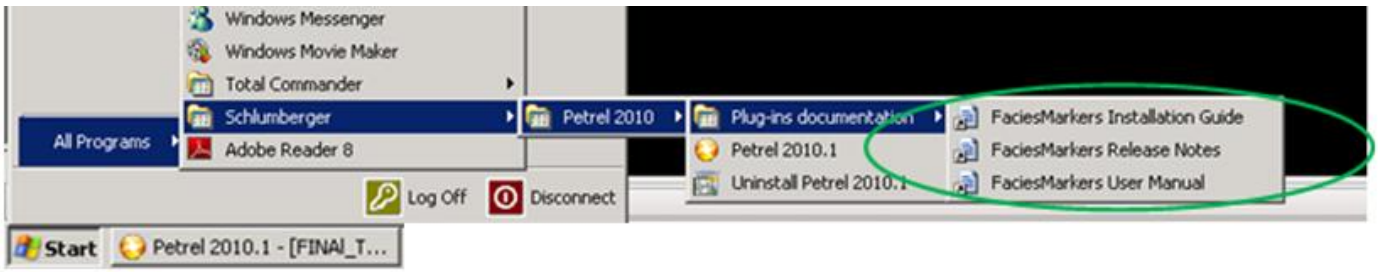
Issue 3 - Installers

Documentation to be included

Typical issues (red – wrong, green - ok)

- Plug-in documentation should be included into installer (Release Notes, Installation Guide, User Manual).
  There is a good practice to make documentation available from "Plug-in's documentation" Petrel's menu. Example is below:



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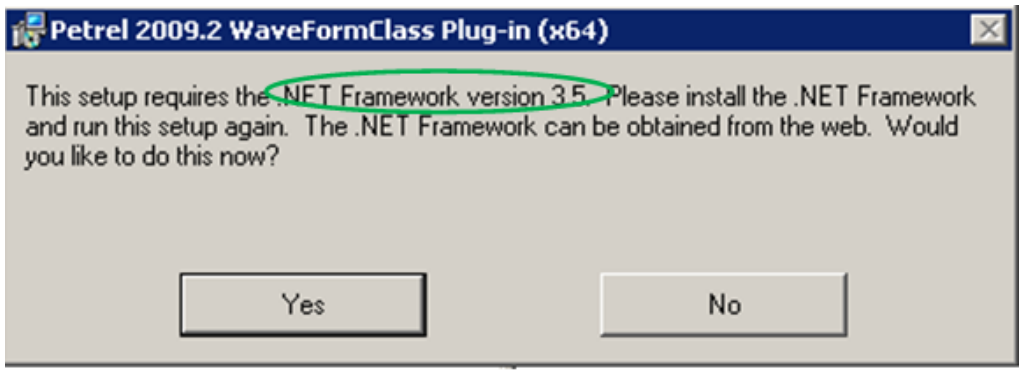
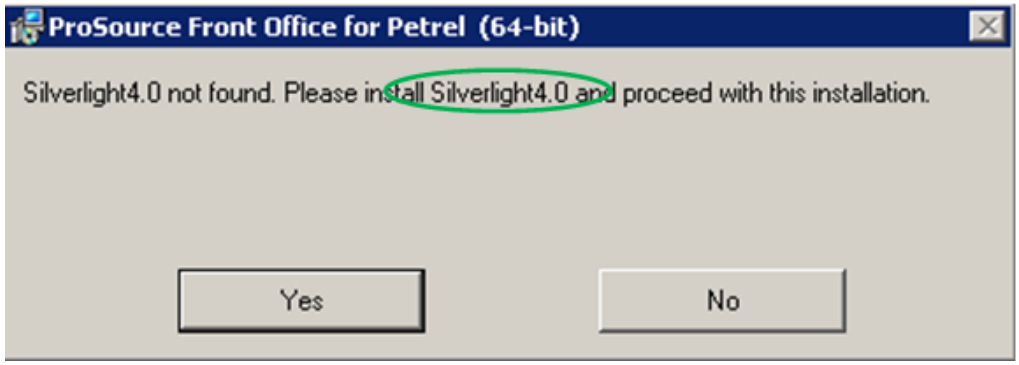
Pre-requirements check

Typical issues (red – wrong, green - ok)

Installer must check pre-requirements before the plug-in's installation. If plug-in's pre-requirements exceed pre-requirements for Petrel, then the pre-requirements have also to be checked before the plug-in is installed. There is typical situation, when plug-in is compiled for Petrel 2009.2 or less and use .NetFramework version 3.5. Please, remember that Petrel 2009.2 or less is using .NetFramework version 2.0. So, the check for existence of .NetFramework version 3.5 must be included into installer.


Petrel 2009.2 WaveFormClass Plug-in (x64)
This setup requires the .NET Framework version 3.5. Please install the .NET Framework and run this setup again. The .NET Framework can be obtained from the web. Would you like to do this now?
Yes
No


ProSource Front Office for Petrel (64-bit)
Silverlight4.0 not found. Please install Silverlight4.0 and proceed with this installation.
Yes
No

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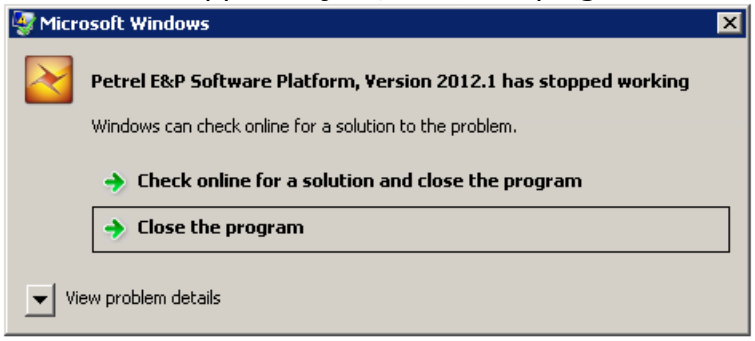
Issue 4 - Stability

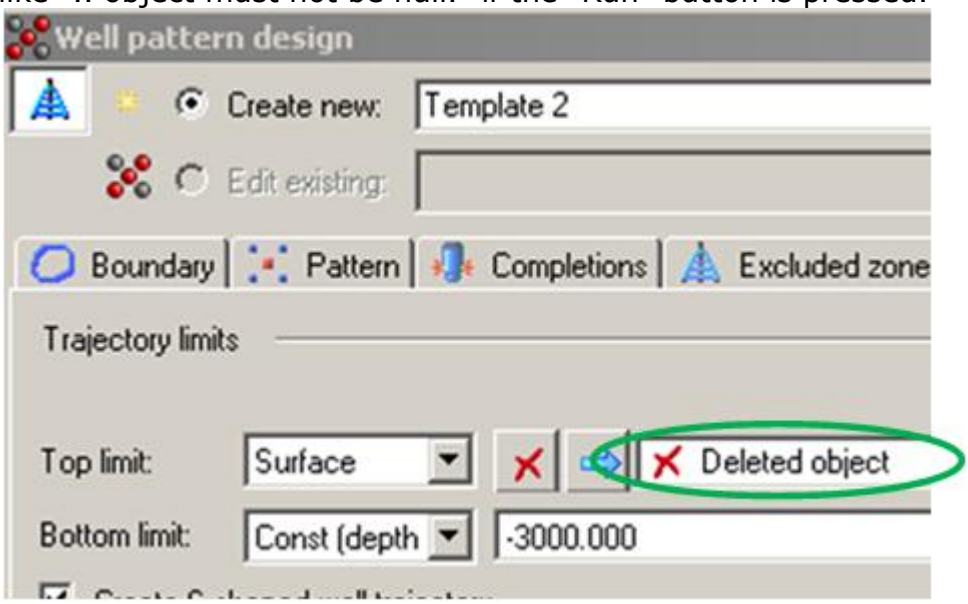
Crash due to object deleted

Typical issues (red – wrong, green - ok)

Petrel is crashed when the object previously deleted is selected as an input for plug-in. Description: open a Petrel test project, open a plug-in's dialog window, drop an appropriate object to the plug-in's drop-site field, go to Petrel Input pane, delete the dropped object, start the plug-in and then Petrel is crashed.


Microsoft Windows
Petrel E&P Software Platform, Version 2012.1 has stopped working
Windows can check online for a solution to the problem.
Check online for a solution and close the program
Close the program
View problem details

Suggested example of correct behaviour: Insert "Deleted object" text, after a loaded object was deleted via Input pane. Next: show the message box something like ".. object must not be null." if the "Run" button is pressed.



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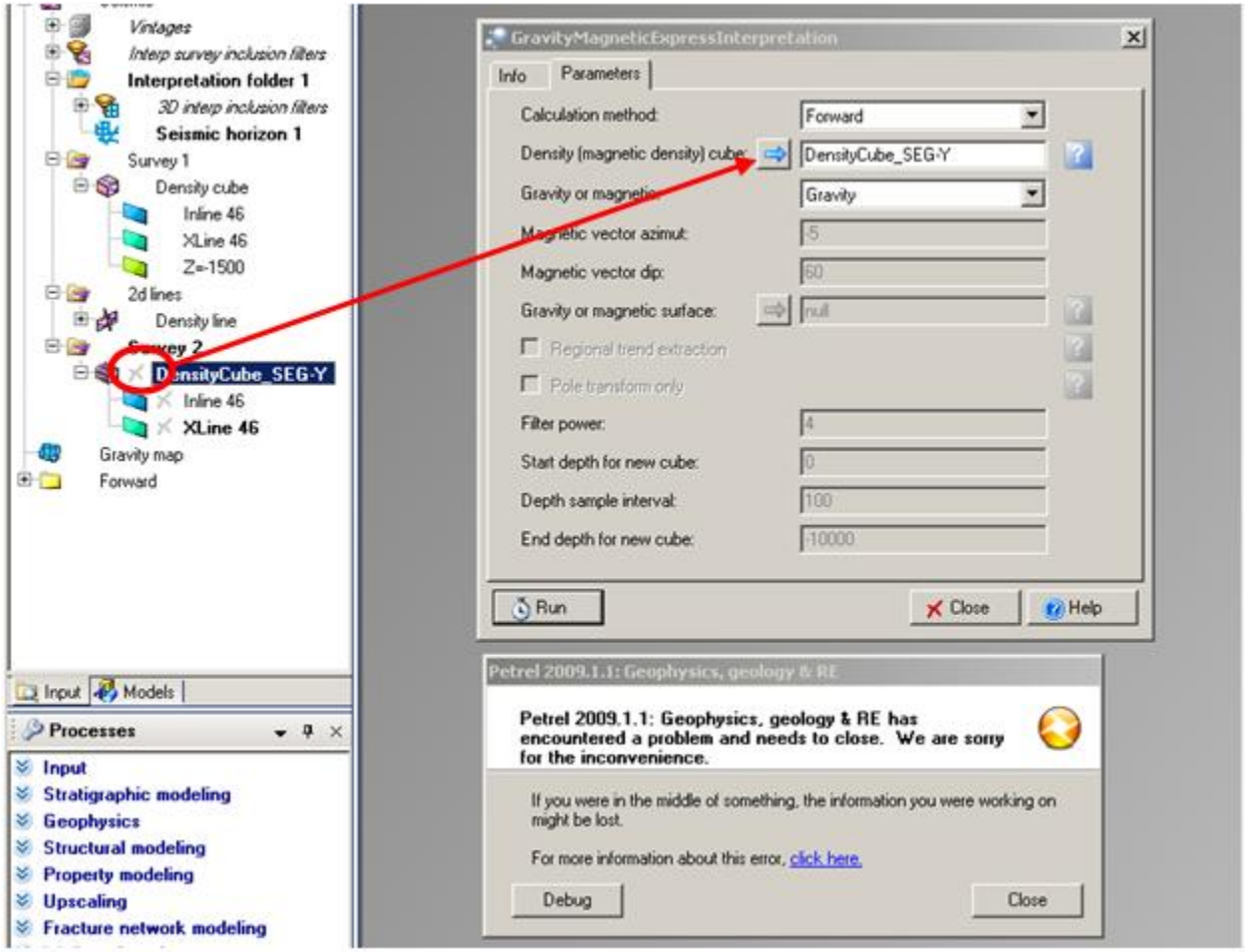
Crash due to missing bulk data

Typical issues (red – wrong, green - ok)

Petrel is crashed when the bulk data file with unexisting location is selected as an input for plug-in. Description: open Petrel test project, open the plug-in's dialog, drop DensityCube_SEG-Y object (the bulk data) to the "Density cube" field, Press Run and then Petrel is crashed.



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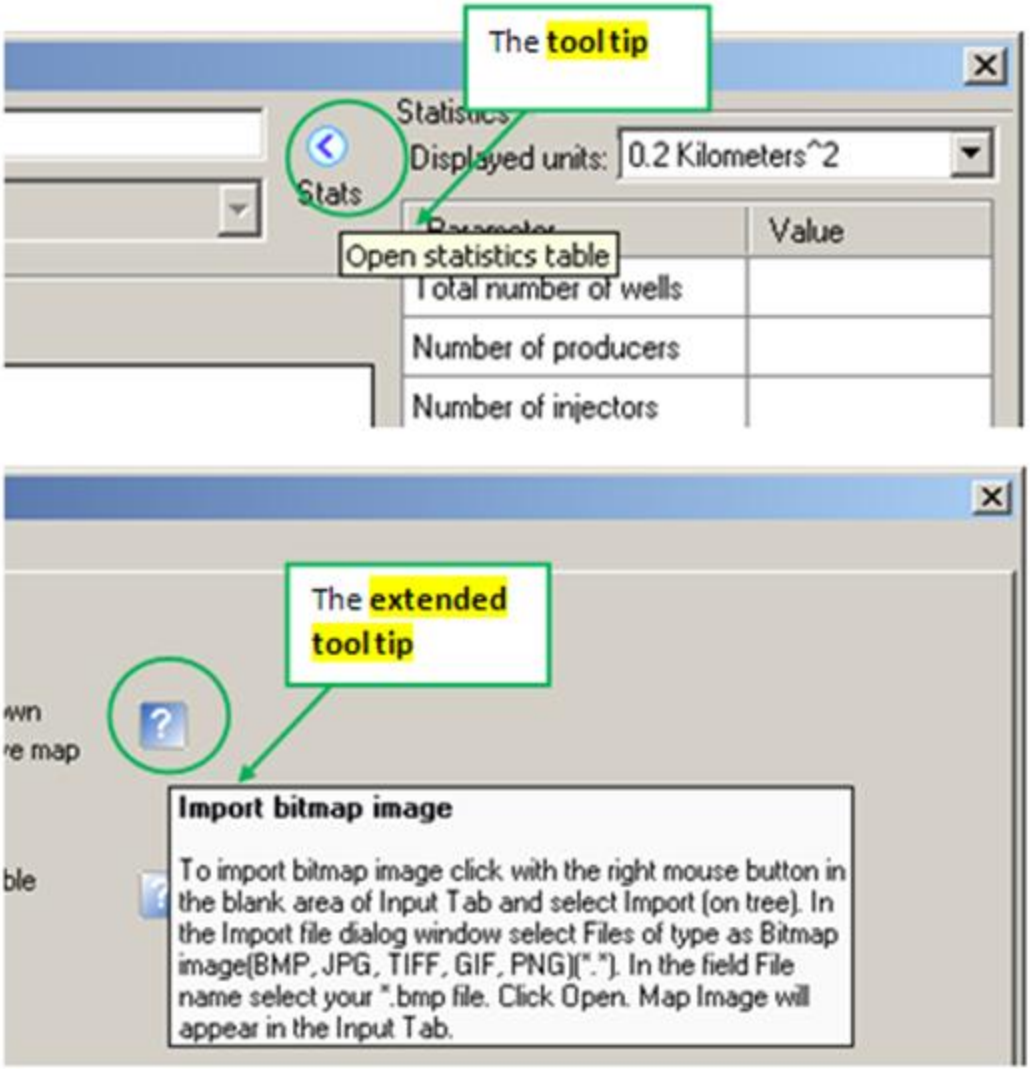
Issue 5 - UI & Functionality

Tooltips and their content

Typical issues (red – wrong, green - ok)

Sometimes, tool tips or extended tool tips are missing.


The tooltip
Displayed units:
0.2 Kilometers^2
Stats
Open statistics table
Value
Total number of wells
Number of producers
Number of injectors
The extended tooltip
Import bitmap image
To import bitmap image click with the right mouse button in the blank area of Input Tab and select Import (on tree). In the Import file dialog window select Files of type as Bitmap image(BMP, JPG, TIFF, GIF, PNG)(*.*). In the field File name select your *.bmp file. Click Open. Map Image will appear in the Input Tab.

Also, could you please pay your attention on following:

1. Text displayed in tool tips must not say the same thing as the visual label. Verbose text and irrelevant components must be avoided. Use tool tips whenever appropriate.

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2. Keyboard access must be well documented in tool tips on icons, buttons and other controls.

3. Tool tip text must be capitalized as described in BasicElements.

4. Shortcut keys, if displayed, must be put in brackets.

5. Extended tooltips must be placed right-aligned to the control or group of controls they belong to, so that they don't obscure the GUI they explain.

6. The tool tip icon must have a depressed look when activated (hit by cursor).

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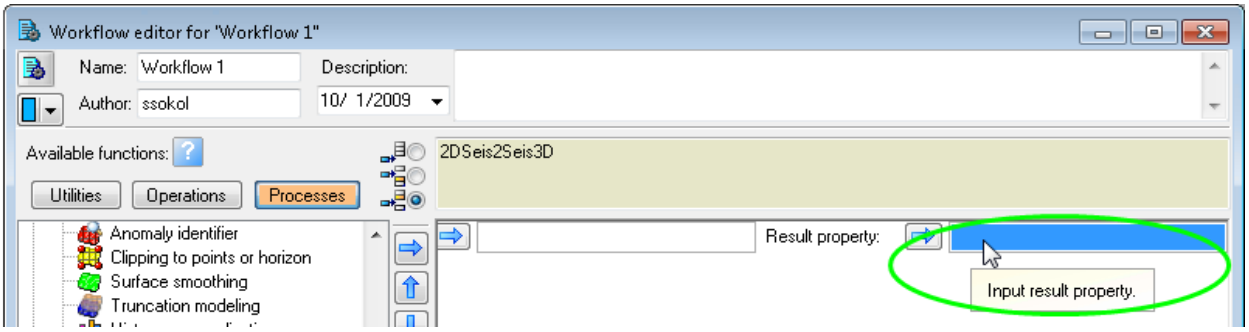
Worksteps issues

Typical issues (red – wrong, green - ok)

Tool tips in the all plug-in's workstep parameter fields are non-descriptive or missing.



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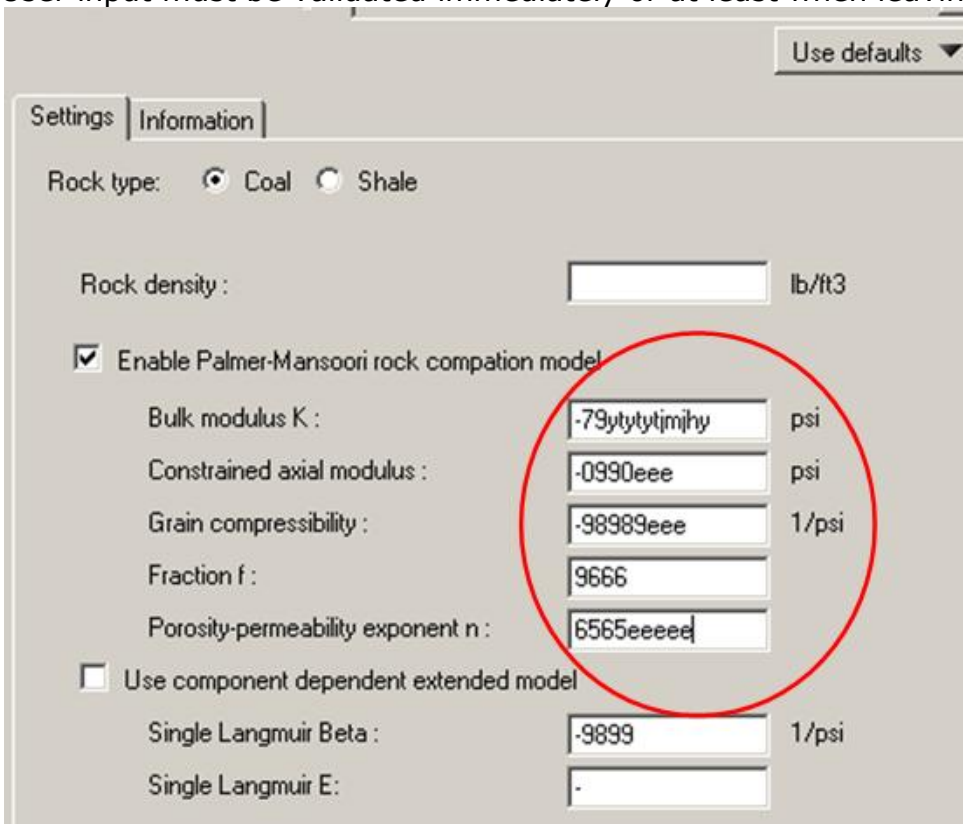
User input is not validated

Typical issues (red – wrong, green - ok)

User input must be validated immediately or at least when leaving the control.



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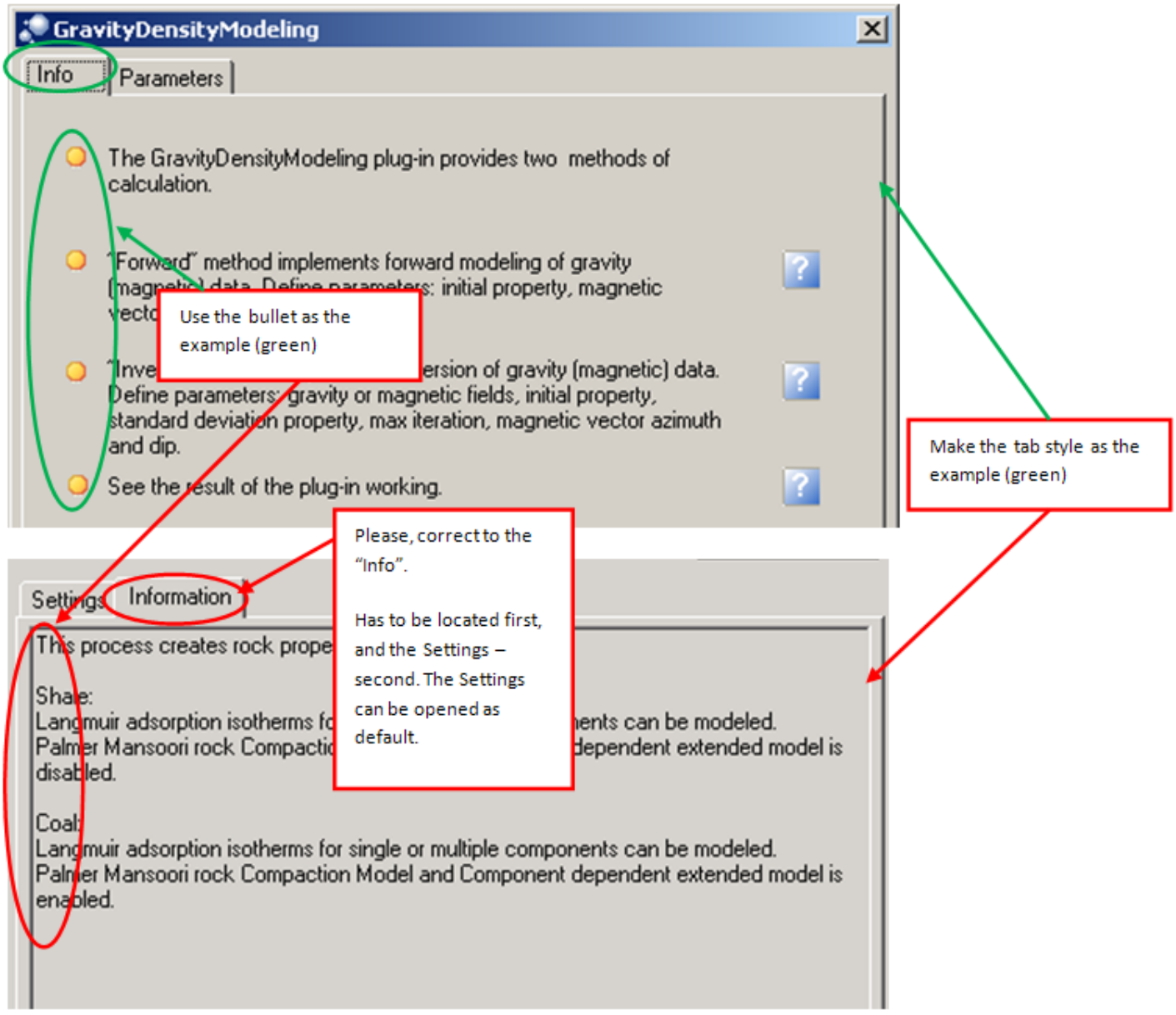
Info tab recommendations

Typical issues (red – wrong, green - ok)

Info tab typical issues and their fixing are below.


GravityDensityModeling
Info
Parameters
The GravityDensityModeling plug-in provides two methods of calculation.
"Forward" method implements forward modeling of gravity
Use the bullet as the example (green)
ersion of gravity (magnetic) data.
Define parameters: gravity or magnetic fields, initial property,
standard deviation property, max iteration, magnetic vector azimuth and dip.
See the result of the plug-in working.
Make the tab style as the example (green)
Please, correct to the "Info".
Has to be located first, and the Settings – second. The Settings can be opened as default.
Settings
Information
Shale:
Coal:
Langmuir adsorption isotherms for single or multiple components can be modeled.
Palmer Mansoori rock Compaction Model and Component dependent extended model is enabled.

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Message box

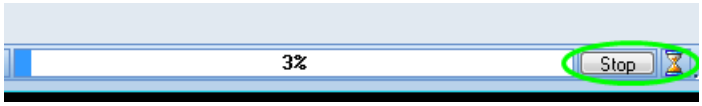
Typical issues (red – wrong, green - ok)

Punctuation is missing on the message box.

Progress bar recommendations

Typical issues (red – wrong, green - ok)

"Stop" button is missing. User should always have ability to stop the process.



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Issue 6 - Documentation

Plug-in naming

Typical issues (red – wrong, green - ok)

Plug-in's name in installer mismatches with plug-in's name in documents. There is the correct usage of plug-in name on the example below.

1. Introduction

The plug-in **Petrel 2012.1 Well pattern design Plug-in** (version: 1.3.0, release date: 1.07.2012) has hardware and software requirements for installation. To ensure that plug-in performs as expected follow the next instructions and recommendations.

1.3 Versioning Scheme

The public key token of the key used to sign the module assemblies: **74f56ef7d8625d2d**.

The convention for **Petrel 2012.1 Well pattern design Plug-in** assembly/DLL versioning is: **1.0.0.0** where:

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Versioning scheme description

Versioning scheme is missing in the Installation Guide or the scheme is not supported by plug-in's installer. The versioning scheme description is on the below example.

1.3 Versioning Scheme

The public key token of the key used to sign the module assemblies: **74f56ef7d8625d2d**.

The convention for **Petrel 2012.1 Well pattern design Plug-in** assembly/DLL versioning is: **1.0.0.0** where:

- n1, n2, n3 are the corresponding numbers of the plug-in version
- n4 is the monotonically increasing assembly version number

For example: 1.0.2.0 – assembly version corresponded to the 1.0.2 plug-in version.

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